Index of Claims

| App | lication | /Control | No. |  |
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|     |          |          |     |  |

10/055,691 Examiner

Applicant(s)/Patent under Reexamination

ANDRADE ET AL.

Art Unit

Mary J. Steelman

2191

| √  | Rejected |
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| II | Allowed  |

- (Through numeral) Cancelled

Restricted

N Non-Elected

Interference

A Appeal
O Objected

| Cla      | aim      | Date    |              |         |               |          | ]         | Claim    |              |         |         | Date     |              |              |                    |          |  |  |                    |                 | Date      |              |        |  |            |                |   |                         |               |            |          |          |          |          |
|----------|----------|---------|--------------|---------|---------------|----------|-----------|----------|--------------|---------|---------|----------|--------------|--------------|--------------------|----------|--|--|--------------------|-----------------|-----------|--------------|--------|--|------------|----------------|---|-------------------------|---------------|------------|----------|----------|----------|----------|
| _        | <u>a</u> | 12.7.40 | 7 ;          | 11.05   |               | İ        |           |          |              |         |         |          | l _          | ल            | 20.                | }        | 1  |  |                    |                 |           | 1            |        |  | <u> </u>   |                |   |                         |               |            |          |          |          |          |
| Final    | Original | ら       | 5 9          | S       |               |          |           | }        |              |         |         |          | Final        | Original     | ہٰا                | յ Մ      | 1  |  |                    |                 |           |              |        | Final  | Original   |                |   |                         |               |            |          |          |          |          |
| "        | ō        | 19      | a.           | ١,      |               |          |           |          |              |         |         |          | "            | <del>o</del> | 7.7                | ડ        |  |  |                    |                 | - 1       |              |        | [  | Ö          |                |   |                         |               |            |          |          | - 1      |          |
| -        | 1        | Η.      | ¥            | 긔       | $\rightarrow$ | $\dashv$ | _         | -        | $\vdash$     | ╁       | ╁       | -        | -            | 51           | ⊢                  | _        | ;}-  | ╁  | ┼                  | $\vdash$        | $\dashv$  | -            | -      |  | 101        | Н              | -   | +                       | $\dashv$      |            | $\dashv$ | 十        | $\dashv$ | $\dashv$ |
| -        | 2        | 1       | 1            | Ħ       | $\dashv$      | 7        | _         | -        | $\vdash$     | ╁       | ╁╌      | 1        | <u> </u>     | 52           | 14                 | 1        | ₩  | +  | $\vdash$           |                 | $\dashv$  | +            | -      | <u> </u>   | 102        | Н              | $\dashv$  | $\dashv$                | $\dashv$      | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | _        |
| $\vdash$ | 3        | H       | $^{+}$       | Ħ       | _             | _        |           | ┢        | ╁            | ╁       | ╁╴      | 1        |              | 53           | Н                  | t        | ╫╴   | +  | ╁╌                 | $\vdash$        | $\dashv$  | +            | -      | <del>                                     </del> | 103        | Н              |   | +                       | $\dashv$      | -          | $\dashv$ | $\dashv$ | $\dashv$ | _        |
|          | 4        | H       | Ť            | Ħ       | _             |          |           |          |              | ✝       | $\top$  | 1        |              | 54           | Н                  | t        | ╫╴   | +-   |                    |                 | $\dashv$  | -            | ١      |  | 104        | $\vdash$       | +   | 十                       | -             | $\dashv$   | $\dashv$ | $\dashv$ | 一        | _        |
|          | 5        | Π       | T            | Ħ       | T             |          |           |          |              | T       | T       | 1        |              | 55           | П                  | T        | 1  | 1  |                    |                 | _         | $\top$       | 7      |  | 105        | Н              |   | 十                       | 十             | $\dashv$   | $\dashv$ | 寸        | $\dashv$ | _        |
|          | 6        | П       | T            | 11      |               |          |           |          |              | T       |         | 1        |              | 56           | П                  | T        | $\parallel$                                      | Τ  | Т                  |                 | $\neg$    | $\neg$       |        |  | 106        |                |   | $\top$                  | 寸             | 一          | ヿ        | 十        | $\dashv$ |          |
|          | 7        | П       |              | П       |               |          |           |          |              |         |         |          |              | 57           | П                  |          |  |  |                    |                 | $\exists$ |              | 7::::: |  | 107        |                |   |                         | ヿ             | 寸          | ヿ        | $\neg$   | $\neg$   | $\neg$   |
|          | 8        | Ц       |              | Ш       |               |          |           |          |              |         |         | ]        |              | 58           | $\square$          |          |  |  |                    |                 |           |              |        |  | 108        |                |   |                         | $\Box$        |            |          | I        | $\Box$   |          |
|          | 9_       | Ц       | $\perp$      | Ц       | _             | $\dashv$ |           |          | <u> </u>     | ┺       | 丄       |          |              | 59           |                    | L        | Ш  | $oldsymbol{ol}}}}}}}}}}}}}}$ |                    |                 |           |              | ]      |  | 109        |                |   |                         | $\Box$        |            |          | $\Box$   |          |          |
| <u> </u> | 10       | Ц       | +            | Ц       |               | _        |           | _        | Ļ            | ╄       | 丄       |          | L            | 60           | Ц                  | L        | Щ_   | ╀  | _                  |                 | _         | ┸            | _      |  | 110        |                |   | _                       | ightharpoonup | _]         |          | $\Box$   | $\Box$   |          |
|          | 11       | Н       | +            | Н       |               | _        |           |          | _            | ╄       | ╄       | 4        |              | 61           | Н                  | L        | Щ.   | +-   | ╙                  |                 | _         | $\perp$      | 4      |  | 111        |                | $\perp$   |                         | $\dashv$      | _          | _        | _        | Ц        |          |
| <u> </u> | 12       | H       | +            | H       | $\dashv$      | 4        |           | <u> </u> | $\vdash$     | 1       | ┼-      | 4        | <u> </u>     | 62           | $\sqcup$           | ╀        | Щ.   | +  | $\vdash$           | Щ               | $\dashv$  | 4            | 4      | <u> </u>   | 112        | Ш              | $\vdash$  | 4                       | <b>긔</b>      | _          |          | _        |          | _        |
| <u> </u> | 13       | ℍ       | +            | H       | -             | 4        |           | $\vdash$ | $\vdash$     | ╀       | +-      | -        | <u> </u>     | 63           | H                  | ╀        | ╙  | +  | +-                 | $\vdash \dashv$ | $\dashv$  | +            | -      | <u> </u>   | 113        | Ш              | $\dashv$  | $\bot$                  | $\dashv$      | -          | _        | _        | _        | _        |
| <u> </u> | 14<br>15 | H       | +            | ╢       | $\dashv$      | -        |           | $\vdash$ | -            | ╁       | +       | -        | <b> </b>     | 64<br>65     | H                  | +        | ╙  | +-   | <del> </del>       | $\vdash \vdash$ | $\dashv$  |              | -      | <del> </del>                                     | 114        | Н              | $\vdash$  | +                       |               | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ |          |
| <u> </u> | 16       | Н       | +            | Н       | -+            | -        | -         | -        | ┢            | ╆       | ╁       | -        | <u> </u>     | 66           | Н                  | ╁        | ╫  | ╁  | +                  | $\vdash$        | -+        |              |        | _  | 115<br>116 | Н              | +   | -                       | $\dashv$      | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ |          |
|          | 17       | Н       | +            | H       | $\dashv$      | ┪        |           | _        |              | ╁       | ┿       | 1        | <del> </del> | 67           | H                  | ╁        | ╫╌   | +  | $\vdash$           |                 | $\dashv$  | $\dashv$     | -      | ┢  | 117        | Н              | $\dashv$  | +                       | $\dashv$      | $\dashv$   | -        | -+       | $\dashv$ |          |
| <b></b>  | 18       | H       | $^{\dagger}$ | Ħ       | $\dashv$      | $\dashv$ | -         | $\vdash$ | H            | ╁       | +       | 1        | $\vdash$     | 68           | Н                  | +        | ╫╌   | +  | 十                  | Н               | -+        | -            | -      | $\vdash$   | 118        |                | $\dashv$  | $\dashv$                | $\dashv$      | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ |          |
| <b></b>  | 19       | Ħ       | Ť            | Ħ       | T             | 7        |           | $\vdash$ | $\vdash$     | 十       | +       | 1        |              | 69           | 11                 | H        | ╫╌   | +  | 十                  |                 | +         |              | - :::: | ┢  | 119        | Н              | $\dashv$  | +                       | ┰┼            | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ |          |
|          | 20       | Ħ       | T            | Ħ       | T             |          |           |          | $\vdash$     | 十       | $\top$  | 1        |              | 70           | Н                  |          | ╫╴   | T  | T                  |                 | _         |              |        |  | 120        | Н              | $\vdash$  | +                       | +             | $\dashv$   | $\neg$   | $\dashv$ | ┪        |          |
|          | 21       | П       |              | П       |               | T        |           |          | П            | T       | $\top$  | 1        |              | 71           | П                  | Τ        | $\sqcap$   | 1-   | T                  |                 | 7         |              | 7      |  | 121        |                | Ħ   | $\dashv$                | _             | $\dashv$   | $\dashv$ | _        | 寸        |          |
|          | 22       | П       | Ι            | $\prod$ |               |          |           |          |              | П       |         | 1        |              | 72           | П                  | Τ        | П  |  |                    |                 |           |              |        |  | 122        |                |   | 寸                       | ヿ             | 寸          |          | 寸        | 寸        | $\neg$   |
|          | 23       | П       |              | П       |               |          |           |          |              |         |         |          |              | 73           | П                  |          |  |  |                    |                 |           |              |        |  | 123        |                |   | 寸                       | ヿ             | ヿ          |          | ヿ        | $\neg$   |          |
| <u> </u> | 24       | Ц       |              | Ц       |               |          |           |          |              |         |         |          |              | 74           | П                  | П        |  |  | 匚                  |                 | $\square$ |              |        |  | 124        |                |   |                         | $\Box$        |            |          | $\Box$   |          |          |
|          | 25       | Ц       | ļ            | Ц       | _             |          |           | _        | 乚            | L       | $\perp$ | <u>.</u> | <u></u>      | 75           | Ц                  | Ľ        | Щ  | ┸  | <u> </u>           |                 |           |              |        |  | 125        |                |   |                         | $\Box$        |            |          |          |          |          |
| <u> </u> | 26       | Н       | +            | Ш       | 4             | 4        |           | <u> </u> | _            | ↓_      | ↓_      |          |              | 76           | Ш                  | L        | Щ.   | $\perp$  | <u> </u>           |                 | _         |              | 4      |  | 126        | Ш              | $\Box$  | _                       | $\dashv$      | $_{\perp}$ | $\Box$   | $\Box$   | $\Box$   |          |
|          | 27       | H       | +            | Н       | -             | $\dashv$ | _         | <u> </u> | ⊢            | ┼-      | ╀       | 4        |              | 77           | Н                  | L        | Щ.   | 1  | _                  | Щ               | -         |              | 4      |  | 127        |                | 4   | _                       | 4             | _          | _        | _        | _        |          |
| <u> </u> | 28       | H       | +            | H       | -             | -        | _         | <u> </u> | <del> </del> | ╁       | ╀       | -        | <u> </u>     | 78           | $oldsymbol{arphi}$ | H        | ╙  | +-   | _                  |                 |           |              | -      | _  | 128        | _              |   | 4                       | $\dashv$      | -          | _        | -        | _        | _        |
| $\vdash$ | 29<br>30 | Н       | +            | Н       | -             | $\dashv$ | _         | ├-       |              | +       | +       | -        | <u> </u>     | 79<br>80     | H                  | ╀        | ₩  | ╀  | ⊢                  | -               | $\dashv$  | +            | -      | _  | 129        | Н              | $\perp$   | 4                       | -             | -          |          | $\dashv$ |          | _        |
| -        | 31       | ╫       | ╁            | Н       | $\dashv$      | $\dashv$ | $\dashv$  | _        |              | ╁       | ╁       | ┨        |              | 81           | ┨                  | ₩        | ╫─   | ╁  | ╆                  | $\dashv$        | $\dashv$  | -            | -      |  | 130<br>131 | $\vdash$       | -   | $\dashv$                | $\dashv$      | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | _        |
| -        | 32       | H       | +            | H       | $\dashv$      | -        | $\dashv$  | $\vdash$ | $\vdash$     | ╁       | ╁       | -        | _            | 82           | Н                  | Н        | ₩-   | +  | $\vdash$           | -               | $\dashv$  | +            | -      |  | 132        |                | +   | $\dashv$                | $\dashv$      | $\dashv$   | $\dashv$ | $\dashv$ | ┥        | _        |
|          | 33       | H       | +            | H       | $\dashv$      | ┪        |           | $\vdash$ | -            | ╁       | ╈       | 1        | -            | 83           | Н                  | $\vdash$ | ₩-   | ╁  | $\vdash$           | $\dashv$        | +         | +            | -      |  | 133        | -              | $\dashv$  | $\dashv$                | $\dashv$      | $\dashv$   | $\dashv$ | $\dashv$ | ┥        |          |
|          | 34       | Ħ       | +            | Ħ       | 寸             | 7        | $\dashv$  |          |              | T       | 十       | 1        |              | 84           | H                  | Ħ        | <del>                                     </del> | $\top$   | $\vdash$           | $\vdash$        | $\dashv$  | +            | 1      | -  | 134        | H              | $\vdash$  | $\dashv$                | $\dashv$      | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | _        |
|          | 35       | $\prod$ | Ţ            | Ħ       | 丁             |          |           |          |              | T       | Τ       | 1        |              | 85           | П                  |          | 11   | 1  | Т                  | $\Box$          | $\dashv$  | $\top$       | 7      | _  | 135        |                | +   | $\dashv$                | $\dashv$      | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | _        |
|          | 36       |         |              | I       |               | J        |           |          |              | T       | Ι       | 1        |              | 86           | $\sqcap$           |          | 1  | T  |                    |                 | $\neg$    | $\top$       | 1      |  | 136        | Н              | $\top$  | 寸                       | 十             | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | $\neg$   |
|          | 37       | $\prod$ | $\perp$      | $\prod$ | J             | J        |           |          |              |         |         | ]        |              | 87           | $\prod$            | Γ        | 1  | Ι  |                    |                 | 丁         | $\top$       | 7      |  | 137        | П              | $\vdash$  | $\dashv$                | 1             | $\dashv$   | $\neg$   | ヿ        | $\dashv$ | $\neg$   |
|          | 38       | Ц       | $\perp$      | $\prod$ | $\Box$        | I        |           |          |              |         |         | ]        |              | 88           | V                  |          | K  |  |                    |                 | $\Box$    | $\perp$      |        |  | 138        |                |   |                         | 寸             |            | $\Box$   | ⇉        | コ        |          |
|          | 39       | Ц       | 1            | Ш       | $\perp$       | _[       | _         |          | Ĺ            | $\perp$ |         | 1        |              | 89           |                    | L        | $\perp$  | L  |                    |                 | $\Box$    | $oxed{\Box}$ | ]      |  | 139        |                | $\Box$  | $oldsymbol{\mathbb{I}}$ | $\Box$        |            |          | J        |          |          |
| <u> </u> | 40       | Ц       | 1            | Ш       | 4             | 4        |           | Щ        | _            | ┺       | ╄-      | 1        | <u> </u>     | 90           | _                  | L        | $\perp$  |  | $oldsymbol{\perp}$ | Ш               | $\bot$    |              | ⅃᠁     |  | 140        |                |   | $oldsymbol{\perp}$      | $\Box$        | $\Box$     |          | $\Box$   |          |          |
|          | 41       | Ц       | 4            | #       | _             | 4        | _         | _        | <u> </u>     | ╀-      | ┺       | 4        | <u></u>      | 91           | $\vdash$           | $\vdash$ | $\perp$  | 1_   |                    | $\sqcup$        | [         |              | _      |  | 141        | Ш              | Ц   | Т                       | Ţ             |            | $\Box$   | $\Box$   | $\Box$   |          |
| <u> </u> | 42       | Н       | +            | #       | $\dashv$      | _        | _         | $\vdash$ | <u> </u>     | ╀       | ╀       | 4        | <u> </u>     | 92           | L                  | ⊢        | +  | $\perp$  | $\vdash$           | $\sqcup$        |           | _            | 4      |  | 142        | Ш              | $\sqcup$  | _                       | _             |            |          | $\dashv$ | $\Box$   |          |
| <u> </u> | 43<br>44 | Н       | +            | H       | $\dashv$      | 4        |           | <u> </u> | ⊢            | ╀       | +-      | -        |              | 93           | $\vdash$           | $\vdash$ | +  | +-   | -                  | $\vdash \dashv$ | -+        | +            | 4      |  | 143        | Ш              |   | 4                       | $\dashv$      | _          | $\dashv$ | 4        | _        | _        |
| -        | 45       | Н       | +            | ╢       | $\dashv$      | +        | $\dashv$  | -        | $\vdash$     | ╁       | ╁╌      | -        | -            | 94<br>95     | -                  | ╀        | +  | +  | +-                 | $\vdash$        | -+        | +            | -      |  | 144        | $\vdash\vdash$ | $\dashv$  | +                       | $\dashv$      | -          | $\dashv$ | $\dashv$ |          | _        |
|          | 46       | Н       | +            | ╫       | $\dashv$      | $\dashv$ | $\dashv$  | H-1      | -            | +       | ╁       | 1        |              | 96           | ⊢                  | +        | +  | +  | +-                 | -               | -+        | +            | -      |  | 145        | Н              | $\dashv$  | -                       | $\dashv$      | -          | $\dashv$ | $\dashv$ |          | _        |
| _        | 47       | Н       | +            | ╫       | $\dashv$      | $\dashv$ | -         | $\vdash$ | -            | +       | +       | 1        | <b> </b>     | 97           | $\vdash$           | $\vdash$ | +  | +  | H                  | $\dashv$        | $\dashv$  |              | -      |  | 146<br>147 | $\vdash$       | $\vdash$  | +                       | $\dashv$      | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | _        |
|          | 48       | H       | +            | Ħ       | 十             | +        | $\dashv$  | Н        |              | ╁╴      | +       | 1        |              | 98           | $\vdash$           | H        | +  | +  | $\vdash$           | $\dashv$        | $\dashv$  | +            | -      |  | 148        | $\vdash$       | $\vdash$  | $\dashv$                | $\dashv$      | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | _        |
| $\vdash$ | 49       | П       | 1            | Ħ       | 十             | 寸        | $\exists$ | Н        | $\vdash$     | 十       | †-      | 1        | $\vdash$     | 99           |                    | t        | +  | +  | $\vdash$           | $\dashv$        | $\dashv$  | +            | ┨Ш     |  | 149        | $\vdash$       | $\dashv$  | +                       | $\dashv$      | $\dashv$   | $\dashv$ | +        | $\dashv$ | _        |
|          | 50       | U       | 7            | 岁       | _             | ┪        | 一         |          |              | T       | T       | 1        |              | 100          | Г                  | T        | $\top$   | T  | 1                  | $\dashv$        | _         | $\top$       | 1      | _  | 150        | $\vdash$       | $\dashv$  | +                       | $\dashv$      | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |
|          |          | _       |              | _       |               |          |           |          |              | _       | _       | ٠٠٠٠٠٠   | <u> </u>     | ,            |                    | _        | ٠  |  | ┺                  |                 |           |              | :::::ل | ـــــــ  | 1 100      | ш              | $oldsymbol{ol}}}}}}}}}}}}}}}}}$ |                         | ㅗ             |            | ш        |          |          |          |